



qPCR-2021-08-10 PMMoV VC Aug 9 Aw Aug 9.pcrd

08/10/2021 19:01

Report Information

User: BioRad/admin

Data File Name: qPCR-2021-08-10 PMMoV VC Aug 9 Aw Aug 9.pcrd

Data File Path: C:\Users\qPCRr\Documents\Syeda\Servicing\Aug 10

Well Group Name: All Wells

Report Differs from Last Save: No

Run Setup

Run Information

Run Date: 08/10/2021 17:56

Run User: admin

Run Type: PrimePCR

Plate File: qPCR-2021-08-05_PEPPER_O_CSC_LIZ_10 SAMPLES.pltd

ID:

Notes:

Sample Volume: 10

Temperature Control Mode: Calculated

Lid Temperature: 105

Base Serial Number: CT055319

Optical Head Serial Number: 785BR30251

Protocol Edited: Yes

Protocol

1: 50.0°C for 5:00

2: 95.0°C for 0:20

3: 95.0°C for 0:03

4: 60.0°C for 0:30

Plate Read

5: GOTO 3, 44 more times

Plate Display

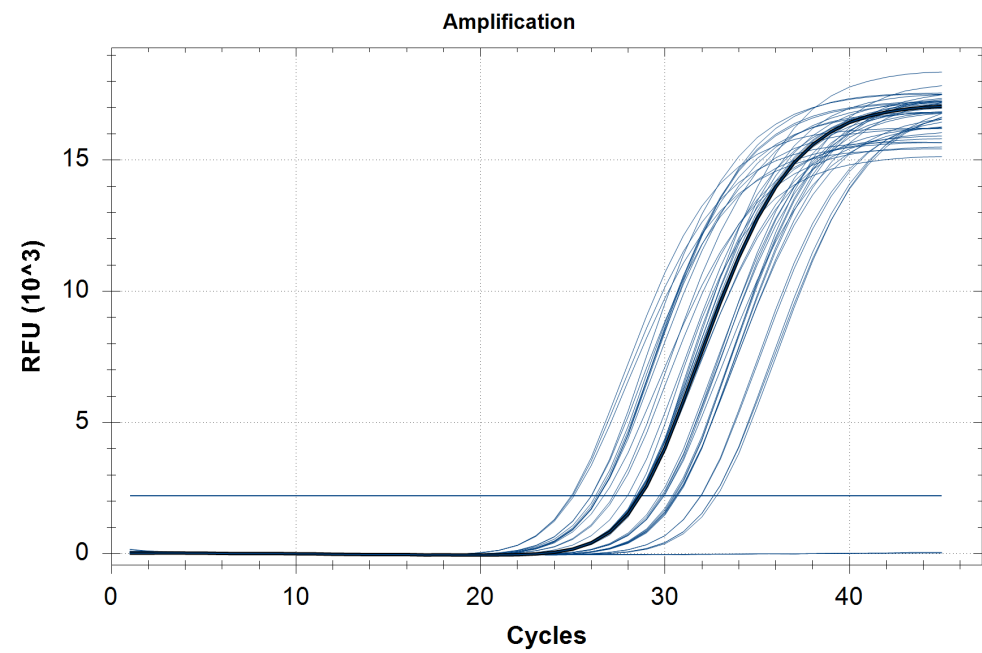
	1	2	3	4	5	6	7	8	9	10	11	12
A	Std Pepper	Std Pepper	Std Pepper	Unk Pepper VC2_08.09. 21	Unk Pepper VC2_08.09. 21	Unk Pepper10 VC2_08.09. 21	Unk Pepper10 VC2_08.09. 21	Unk Pepper10 VC2_08.09. 21	Unk Pepper40 VC2_08.09. 21	Unk Pepper40 VC2_08.09. 21		
B	Std Pepper	Std Pepper	Std Pepper	Unk Pepper VC3_08.09. 21	Unk Pepper VC3_08.09. 21	Unk Pepper10 VC3_08.09. 21	Unk Pepper10 VC3_08.09. 21	Unk Pepper10 VC3_08.09. 21	Unk Pepper40 VC3_08.09. 21	Unk Pepper40 VC3_08.09. 21		
C	Std Pepper	Std Pepper	Std Pepper	Unk Pepper Aw_08.09.2 1	Unk Pepper Aw_08.09.2 1	Unk Pepper10 Aw_08.09.2 1	Unk Pepper10 Aw_08.09.2 1	Unk Pepper10 Aw_08.09.2 1	Unk Pepper40 Aw_08.09.2 1	Unk Pepper40 Aw_08.09.2 1		

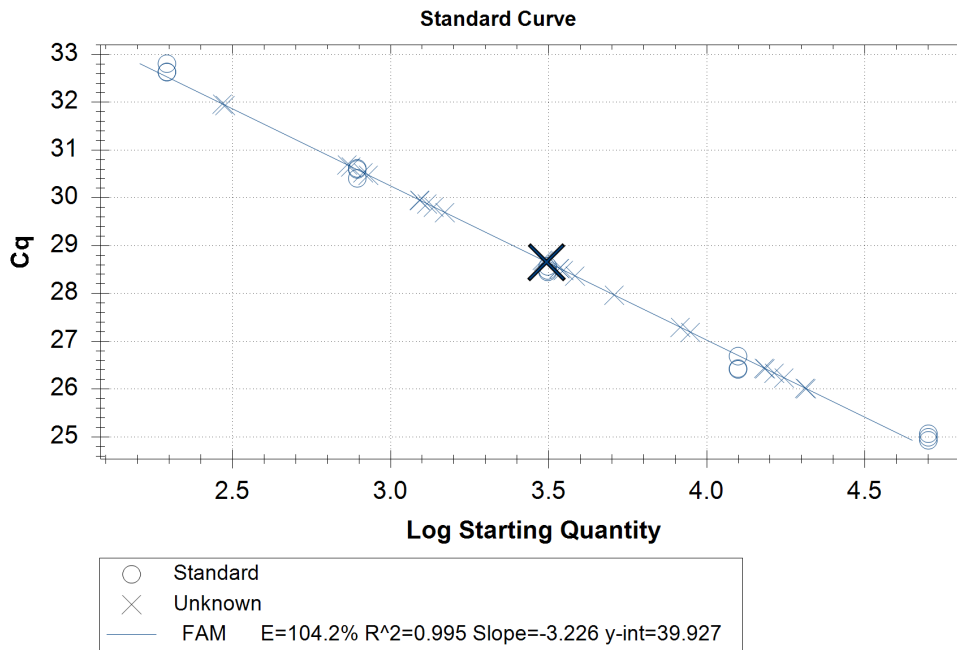
Plate Display

	1	2	3	4	5	6	7	8	9	10	11	12
D	Std Pepper	Std Pepper	Std Pepper	Unk Pepper Aw_B_08.0 9.21	Unk Pepper Aw_B_08.0 9.21	Unk Pepper10 Aw_B_08.0 9.21	Unk Pepper10 Aw_B_08.0 9.21	Unk Pepper10 Aw_B_08.0 9.21	Unk Pepper40 Aw_B_08.0 9.21	Unk Pepper40 Aw_B_08.0 9.21		
E	Std Pepper	Std Pepper	Std Pepper									
F	NTC Pepper	NTC Pepper	NTC Pepper									
G												
H												

Quantification

Step #: 4
Analysis Mode: Fluorophore
Cq Determination: Single Threshold
Baseline Method:
FAM: Auto Calculated
Threshold Setting:
FAM: 2217.90, Auto Calculated





Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev	Starting Quantity (SQ)	Log Starting Quantity	SQ Mean	SQ Std. Dev
A01	FAM	Pepper	Std		25.07	25.07	0.000	5.020E+04	4.701	5.02E+04	0.00E+00
A02	FAM	Pepper	Std		24.99	24.99	0.000	5.020E+04	4.701	5.02E+04	0.00E+00
A03	FAM	Pepper	Std		24.93	24.93	0.000	5.020E+04	4.701	5.02E+04	0.00E+00
A04	FAM	Pepper	Unkn	VC2_08.09.21	27.19	27.19	0.000	8.879E+03	3.948	8.88E+03	0.00E+00
A05	FAM	Pepper	Unkn	VC2_08.09.21	27.29	27.29	0.000	8.245E+03	3.916	8.24E+03	0.00E+00
A06	FAM	Pepper10	Unkn	VC2_08.09.21	29.95	29.95	0.000	1.235E+03	3.092	1.23E+03	0.00E+00
A07	FAM	Pepper10	Unkn	VC2_08.09.21	29.81	29.81	0.000	1.368E+03	3.136	1.37E+03	0.00E+00
A08	FAM	Pepper10	Unkn	VC2_08.09.21	29.70	29.70	0.000	1.484E+03	3.172	1.48E+03	0.00E+00
A09	FAM	Pepper40	Unkn	VC2_08.09.21	31.97	31.97	0.000	2.938E+02	2.468	2.94E+02	0.00E+00
A10	FAM	Pepper40	Unkn	VC2_08.09.21	31.94	31.94	0.000	2.999E+02	2.477	3.00E+02	0.00E+00
B01	FAM	Pepper	Std		26.69	26.69	0.000	1.255E+04	4.099	1.26E+04	0.00E+00
B02	FAM	Pepper	Std		26.43	26.43	0.000	1.255E+04	4.099	1.26E+04	0.00E+00
B03	FAM	Pepper	Std		26.41	26.41	0.000	1.255E+04	4.099	1.26E+04	0.00E+00
B04	FAM	Pepper	Unkn	VC3_08.09.21	26.02	26.02	0.000	2.044E+04	4.311	2.04E+04	0.00E+00
B05	FAM	Pepper	Unkn	VC3_08.09.21	26.01	26.01	0.000	2.061E+04	4.314	2.06E+04	0.00E+00
B06	FAM	Pepper10	Unkn	VC3_08.09.21	28.66	28.66	0.000	3.112E+03	3.493	3.11E+03	0.00E+00
B07	FAM	Pepper10	Unkn	VC3_08.09.21	28.68	28.68	0.000	3.056E+03	3.485	3.06E+03	0.00E+00
B08	FAM	Pepper10	Unkn	VC3_08.09.21	28.53	28.53	0.000	3.421E+03	3.534	3.42E+03	0.00E+00
B09	FAM	Pepper40	Unkn	VC3_08.09.21	30.65	30.65	0.000	7.499E+02	2.875	7.50E+02	0.00E+00
B10	FAM	Pepper40	Unkn	VC3_08.09.21	30.69	30.69	0.000	7.287E+02	2.863	7.29E+02	0.00E+00
C01	FAM	Pepper	Std		28.57	28.57	0.000	3.138E+03	3.497	3.14E+03	0.00E+00
C02	FAM	Pepper	Std		28.48	28.48	0.000	3.138E+03	3.497	3.14E+03	0.00E+00
C03	FAM	Pepper	Std		28.45	28.45	0.000	3.138E+03	3.497	3.14E+03	0.00E+00
C04	FAM	Pepper	Unkn	Aw_08.09.21	26.34	26.34	0.000	1.634E+04	4.213	1.63E+04	0.00E+00
C05	FAM	Pepper	Unkn	Aw_08.09.21	26.24	26.24	0.000	1.754E+04	4.244	1.75E+04	0.00E+00
C06	FAM	Pepper10	Unkn	Aw_08.09.21	27.97	27.97	0.000	5.097E+03	3.707	5.10E+03	0.00E+00
C07	FAM	Pepper10	Unkn	Aw_08.09.21	28.37	28.37	0.000	3.829E+03	3.583	3.83E+03	0.00E+00
C08	FAM	Pepper10	Unkn	Aw_08.09.21	28.70	28.70	0.000	3.023E+03	3.480	3.02E+03	0.00E+00

Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev	Starting Quantity (SQ)	Log Starting Quantity	SQ Mean	SQ Std. Dev
C09	FAM	Pepper40	Unkn	Aw_08.09.21	29.95	29.95	0.000	1.239E+03	3.093	1.24E+03	0.00E+00
C10	FAM	Pepper40	Unkn	Aw_08.09.21	29.88	29.88	0.000	1.304E+03	3.115	1.30E+03	0.00E+00
D01	FAM	Pepper	Std		30.62	30.62	0.000	7.844E+02	2.895	7.84E+02	0.00E+00
D02	FAM	Pepper	Std		30.59	30.59	0.000	7.844E+02	2.895	7.84E+02	0.00E+00
D03	FAM	Pepper	Std		30.41	30.41	0.000	7.844E+02	2.895	7.84E+02	0.00E+00
D04	FAM	Pepper	Unkn	Aw_B_08.09.21	26.43	26.43	0.000	1.530E+04	4.185	1.53E+04	0.00E+00
D05	FAM	Pepper	Unkn	Aw_B_08.09.21	26.44	26.44	0.000	1.517E+04	4.181	1.52E+04	0.00E+00
D06	FAM	Pepper10	Unkn	Aw_B_08.09.21	28.65	28.65	0.000	3.127E+03	3.495	3.13E+03	0.00E+00
D07	FAM	Pepper10	Unkn	Aw_B_08.09.21	28.49	28.49	0.000	3.522E+03	3.547	3.52E+03	0.00E+00
D08	FAM	Pepper10	Unkn	Aw_B_08.09.21	28.53	28.53	0.000	3.419E+03	3.534	3.42E+03	0.00E+00
D09	FAM	Pepper40	Unkn	Aw_B_08.09.21	30.48	30.48	0.000	8.505E+02	2.930	8.50E+02	0.00E+00
D10	FAM	Pepper40	Unkn	Aw_B_08.09.21	30.53	30.53	0.000	8.192E+02	2.913	8.19E+02	0.00E+00
E01	FAM	Pepper	Std		32.64	32.64	0.000	1.961E+02	2.292	1.96E+02	0.00E+00
E02	FAM	Pepper	Std		32.81	32.81	0.000	1.961E+02	2.292	1.96E+02	0.00E+00
E03	FAM	Pepper	Std		32.63	32.63	0.000	1.961E+02	2.292	1.96E+02	0.00E+00
F01	FAM	Pepper	NTC		N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
F02	FAM	Pepper	NTC		N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
F03	FAM	Pepper	NTC		N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00

Bar Chart

Normalized expression analysis is not possible, either because no target is assigned as a reference or the selected target(s) is not a

Target Names

Name	Full Name	Reference	Auto Efficiency	Efficiency
Pepper	Pepper	False	Yes	104.2%
Pepper10	Pepper10	False	Yes	104.2%
Pepper40	Pepper40	False	Yes	104.2%

Sample Names

Name	Full Name	Control
Aw_08.09.21	Aw_08.09.21	No
Aw_B_08.09.21	Aw_B_08.09.21	No
VC2_08.09.21	VC2_08.09.21	No
VC3_08.09.21	VC3_08.09.21	No

Gene Expression - Bar Chart Data

Target	Sample	Control	Expression	Expression SEM	Corrected Expression SEM	Mean Cq	Cq SEM	P-Value
Pepper	Aw_08.09.21		N/A	N/A	N/A	26.29	0.04956	N/A
Pepper	Aw_B_08.09.21		N/A	N/A	N/A	26.43	0.00561	N/A
Pepper	VC2_08.09.21		N/A	N/A	N/A	27.24	0.05192	N/A
Pepper	VC3_08.09.21		N/A	N/A	N/A	26.02	0.00566	N/A
Pepper10	Aw_08.09.21		N/A	N/A	N/A	28.35	0.21151	N/A
Pepper10	Aw_B_08.09.21		N/A	N/A	N/A	28.56	0.05014	N/A

Gene Expression - Bar Chart Data

Target	Sample	Control	Expression	Expression SEM	Corrected Expression SEM	Mean Cq	Cq SEM	P-Value
Pepper10	VC2_08.09.21		N/A	N/A	N/A	29.82	0.07463	N/A
Pepper10	VC3_08.09.21		N/A	N/A	N/A	28.62	0.04898	N/A
Pepper40	Aw_08.09.21		N/A	N/A	N/A	29.91	0.03592	N/A
Pepper40	Aw_B_08.09.21		N/A	N/A	N/A	30.50	0.02626	N/A
Pepper40	VC2_08.09.21		N/A	N/A	N/A	31.95	0.01440	N/A
Pepper40	VC3_08.09.21		N/A	N/A	N/A	30.67	0.02010	N/A

QC Parameters

Data

Description	Value	Use	Results	Exclude Wells	All excluded wells
Negative control with a Cq less than	38	True		False	
NTC with a Cq less than	38	True		False	
NRT with a Cq less than	38	True		False	
Positive control with a Cq greater than	30	True		False	
Unknown without a Cq	N/A	True		False	
Standard without a Cq	N/A	True		False	
Efficiency greater than	110.0	True			
Efficiency less than	90.0	True			
Std Curve R^2 less than	0.980	True			
Replicate group Cq Std Dev greater than	0.20	True		False	